EKI-1121L
EKI-1122L

1-port RISC-based Industrial Communication Controller

2-port RISC-based Industrial Communication Controller

NEW
EKI-1121L
EKI-1122L

Features

- ARM7 32-bit 80MHz processor
- 8MB Flash ROM on board
- 16MB SDRAM
- 2 x 10/100 Mbps Ethernet ports for LAN redundancy
- 1 or 2 software selectable RS-232/422/485 serial ports
- 50 bps to 921.6 kbps baud rate
- Built-in real-time clock (RTC)
- Class I, Division 2 certification
- Pre-installed Linux Kernel 2.4 platform

Introduction

EKI-1121L and EKI-1122L are RISC-based embedded communication controllers which provide dual auto-sensing 10/100 Mbps Ethernet ports for network redundancy and one or two software-selectable RS-232/422/485 serial ports. The EKI-1121L and EKI-1122L use the ARM7 RISC CPU which is a powerful computing engine to fulfill data compression or protocol conversion requirements. The built-in 8 MB flash ROM and 16 MB SDRAM provide user enough storage to run their specific applications.

Specifications

System

CPU	ARM7 32-bit RISC CPU, 80 MHz
Flash	8 MB
SDRAM	16 MB
OS (pre-installed)	uClinux
Console Port	RS-232, 3-wire (Tx, Rx, GND) pin-header
Other	RTC, watchdog timer

Ethernet Interface

LAN	2 x auto-sensing 10/100 Mbps ports
Connector	RJ-45
Protection	1.5 kV magnetic isolation protection

Serial Interface

Serial Standards	Software selectable RS-232/422/485 ports
Connectors	D-sub 9 male
Protection	15 kV ESD protection for all signals

Serial Parameters

Data Bits	5, 6, 7, 8
Stop Bits	1, 1.5, 2
Parity	None, Even, Odd, Space, Mark
Flow Control	RTS/CTS, XON/XOFF, automatic RS-485 data flow control
Baud Rate	50 bps to 921.6 kbps

Serial Signals

RS-232	TxD, RxD, DTR, DSR, RTS, CTS, DCD, RI, GND
RS-422	TxD+, TxD-, RxD+, RxD-, GND
RS-485	Data+, Data-, GND

LEDs

System	OS ready, power 1 and power 2 ready
LAN	Speed (10/100 Mbps), link/active (on connector)
Serial	TxD, RxD

Mechanics

Dimensions	37 x 140 x 95 mm (W x H x D)
Housing	Metal
Weight	600g
Mounting	DIN-rail, wall

Power Requirements

Input Voltage	12 ~ 48 V_{DC}, redundant dual inputs
Power Consumption	2.5 W

Software (uClinux)

Kernel Version	2.4.31
Protocol Stack	TCP, UDP, IPv4, ICMP, ARP, SNMP V1, HTTP, DHCP, NTP, NFS, SMTP, Telnet, FTP, PPP, PPPoE
File System	ROMFS/JFFS2
System Utility	busybox, telnet, ftp, sash, tftp
Daemon	pppd, snmpd, telnetd, inted, ftpd, boa
Linux Tool Chain	Arm-elf-gcc: C/C++ PC Cross Compiler
uClibc	POSIX Standard Library

Environmental Limits

Operating Temperature	0 ~ 60° C (32 ~ 140° F)
Storage Temperature	-20 ~ 80° C (-4 ~ 176° F)
Operating Humidity	5 ~ 95 % RH

Regulatory Approvals

EMC	CE, FCC Part 15 Subpart B (Class A)
Hazardous Location	UL/cUL Class I, Division 2

Ordering Information

EKI-1121L	1-port RISC-based Communication Controller
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